

SAFETY DATA SHEET**SOLIDSEAL GRAY**

Version 1.0

Revision Date 05/31/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SOLIDSEAL GRAY
Product code : 100000024600

Manufacturer or supplier's details

Company : H.B. Fuller Company
Address : 1200 Willow Lake Boulevard
Vadnais Heights, MN 55110
Telephone : 1-888-423-8553

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, Sealant
Restrictions on use : For industrial use only.


SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance	Pasty solid
Color	gray
Odor	solvent

GHS Classification

Respiratory sensitization : Category 1
Skin sensitization : Category 1

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements:

H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements:

Prevention: P261 Avoid breathing dust. P272 Contaminated work clothing must not be allowed out

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of the workplace. P280 Wear protective gloves. P285 In case of inadequate ventilation wear respiratory protection.

Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects**Carcinogenicity:****IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Polyvinyl chloride	9002-86-2	20 - 30
Xylene	1330-20-7	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Calcium carbonate	471-34-1	1 - 5
4,4'-Methylenediphenyl diisocyanate	101-68-8	0.1 - 1
4,4'-Methylenediphenyl diisocyanate, oligomers	25686-28-6	0.1 - 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Even minimal concentrations of isocyanate can lead to a reaction in sensitized people.
Symptoms that may occur include the following:
irritation of the eyes, nose, throat and lungs, possibly together with a dry throat, a feeling of chest tightness and breathing difficulties.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Show this material safety data sheet to the doctor in attendance.

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| If inhaled | : Remove person to fresh air. If signs/symptoms continue, get medical attention.
In case of unconsciousness bring patient into stable side position for transport. |
| In case of skin contact | : Treat affected skin with cotton wool or cellulose.
Wash off with plenty of water.
Use a mild soap if available.
If skin irritation persists, call a physician. |
| In case of eye contact | : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. |
| If swallowed | : If accidentally swallowed obtain immediate medical attention.
Do NOT induce vomiting. |
| Notes to physician | : In instances of existing sensitization towards isocyanates, a doctor should be consulted with regards to work-related contact with other sensitizing substances, or substances which irritate the airway. Treatment for exposure should be geared towards monitoring symptoms and the patient's clinical condition. It must be ensured that the patient has sufficient ventilation and oxygen supply. Isocyanates can cause sensitization of the airways, or asthma-like symptoms (bronchospasms). Delayed breathing symptoms, including lung edema, may occur. People who have shown signs of breathlessness after considerable exposure should remain under observation for 24-48 hours. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|---------------------------------------|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Alcohol-resistant foam
Dry powder
Carbon dioxide (CO ₂) |
| Unsuitable extinguishing media | : Water with a full water jet |
| Specific hazards during fire fighting | : May release toxic, irritating and/or corrosive gases.
In case of fire, the following substance(s) may occur:
Hydrogen chloride (HCl)
Nitrogen oxides
Sulphur oxides (SO _x)
Carbon monoxide |

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- Specific extinguishing methods :
 Further information : In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Ensure adequate ventilation. Send for recovery or disposal in suitable containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of contaminated material as waste according to section 13.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid formation of dust and aerosols. Use only with adequate ventilation. Handle with care. Keep eye wash bottle available on working place. Avoid release to the environment. Keep away from children.
- Conditions for safe storage : Keep dark, cool and dry. Do not freeze.
- Materials to avoid :

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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Polyvinyl chloride	9002-86-2	TWA (Respirable particulate matter)	1 mg/m ³	ACGIH
Xylene	1330-20-7	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m ³	OSHA P0
		TWA	100 ppm 435 mg/m ³	OSHA P0
		TWA	100 ppm 435 mg/m ³	OSHA Z-1
		STEL	150 ppm 655 mg/m ³	CAL PEL
		C	300 ppm	CAL PEL
		PEL	100 ppm 435 mg/m ³	CAL PEL
		TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m ³	OSHA P0
		STEL	150 ppm 655 mg/m ³	OSHA P0
Titanium dioxide	13463-67-7	TWA	10 mg/m ³	ACGIH
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (Total)	10 mg/m ³	OSHA P0
		TWA (Total dust)	10 mg/m ³	OSHA P0
Calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m ³	CAL PEL
		PEL (respirable dust fraction)	5 mg/m ³	CAL PEL
4,4'-Methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
		C	0.02 ppm 0.2 mg/m ³	OSHA Z-1
		C	0.02 ppm 0.2 mg/m ³	OSHA P0
		PEL	0.005 ppm 0.051 mg/m ³	CAL PEL

Engineering measures : Please take care on national and local requirements.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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Hand protection	
Material	: Nitrile rubber
Remarks	: Direct contact with the isocyanate-based product must be avoided by organizational measures. The glove material has to be impermeable and resistant to the product/the substance/the preparation. The exact break through time can be obtained from the protective glove producer and this has to be observed.
Eye protection	: Tightly fitting safety goggles
Skin and body protection	: Protective clothing When carrying out activities where unintentional skin contact with the isocyanate-based product may occur (e.g. during maintenance work, or when opening a barrel), wear long-sleeved protective clothing and gloves.
Protective measures	: Keep away from food, drink and animal feeding stuffs. Instantly remove any soiled and impregnated garments. Wash hands before breaks and immediately after handling the product. Avoid contact with the eyes and skin. Store protective clothing separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Pasty solid
Color	: gray
Odor	: solvent
Odor Threshold	: is not determined
pH	: is not determined
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Flash point	: Not applicable
Evaporation rate	: is not determined
Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Vapor pressure	: is not determined
Relative vapor density	: is not determined
Density	: 1.17 g/cm ³
Solubility(ies)	

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Water solubility	: not miscible or difficult to mix, reacts with water
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: not self-igniting
Thermal decomposition	: Not applicable
Explosive properties	: Not explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No further relevant information available.
Chemical stability	: No decomposition if used according to the specifications.
Possibility of hazardous reactions	: Reacts with alcohols, amines, aqueous acids and alkalis. Mixture reacts slowly with water resulting in evolution of CO ₂ . Evolution of CO ₂ in closed containers causes overpressure and produces a risk of bursting.
Conditions to avoid	: No further relevant information available.
Incompatible materials	: No further relevant information available.
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : 32.61 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

Components:**Xylene:**

Acute oral toxicity	: LD50 Oral Rat: 4,300 mg/kg
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Acute inhalation toxicity : LC50 Rat: 47,635 mg/l
Exposure time: 4 h
Test atmosphere: vapor

4,4'-Methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate : 1.5 mg/l
Test atmosphere: dust/mist
Method: Calculation method

4,4'-Methylenediphenyl diisocyanate, oligomers:

Acute inhalation toxicity : LC50 : 1.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

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No data available

Persistence and degradability

No data available

Bioaccumulative potential**Mobility in soil****Product:**

Mobility

: Medium: Soil

Remarks: Do not allow product to reach ground water, water bodies or sewage system.

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues

: Do not dispose of with domestic refuse.
Do not dispose of waste into sewer.
Hand over to disposers of hazardous waste.
Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
The generation of waste should be avoided or minimized wherever possible.
Incinerate under controlled conditions in accordance with all local and national laws and regulations.
Disposal must be made according to official regulations.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under item 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application:

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Waste accruing during cleaning:

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

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Waste packaging:

15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 04 metallic packaging
15 01 10* packaging containing residues of or
contaminated by dangerous substances.

Contaminated packaging : Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Respiratory or skin sensitization

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Xylene 1330-20-7

Clean Air Act

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The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Xylene	1330-20-7
4,4'-Methylenediphenyl diisocyanate	101-68-8

US State Regulations

California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

TCSI	On the inventory, or in compliance with the inventory
TSCA	All substances listed as active on the TSCA inventory
AIIC	On the inventory, or in compliance with the inventory
DSL	All components of this product are on the Canadian DSL
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
REACH	On the inventory, or in compliance with the inventory
KKDIK	On the inventory, or in compliance with the inventory

Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

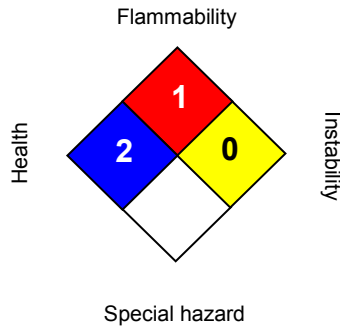
SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Department
EU-MSDS@hbfuller.com

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Further information
NFPA:

HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Penetrometer test according to ADR 2.3.4.3

Test result: solid (penetration after 5 s < 15 mm)

Burning test according to 33.2.4 "Manual of Tests and Criteria" (Recommendations on the TRANSPORT OF DANGEROUS GOODS [United Nations]):

Burning rate: ≤ 2.2 mm/s (Not a dangerous good according to ADR class 4.1)

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